LG Electronics USA, Inc.

EMC TEST REPORT

Report Type:
FCC Part 18 EMC report

Model:
MVEM1721#

REPORT NUMBER:
231000612SHA-001

ISSUE DATE:
October 31, 2023

DOCUMENT CONTROL NUMBER:
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Report no.: 231000612SHA-001

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TEST REPORT

Applicant:	LG Electronics USA, Inc. 111 Sylvan Avenue North Building, Englewood Cliffs, New Jersey, United States
Manufacturing Site:	LG Electronics Tianjin Appliances Co., Ltd. No.9 Jinwei Road, Bei Chen Dist., Tianjin 300402, People's Republic of China
Product Name:	Microwave oven
Type/Model:	MVEM1721# (#- Represent any alphanumeric code for color of Control panel/door panel.)
FCC ID:	BEJV1722NAF

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 18 (2018): Industrial, Scientific, and Medical Equipment

FCC/OET MP-5 (1986): FCC methods of Measurements of Radio Noise Emissions From Industrial, Scientific, and Medical Equipment

PREPARED BY:	REVIEWED BY:
Project Engineer Dylan Tang	Reviewer Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
231000612SHA-001	Rev. 01	Initial issue of report	October 31, 2023

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Measurement result summary

TEST ITEM	FCC REFERANCE	RESULT
Conducted Emission (150 kHz to 30 MHz)	18.307(b)	Pass
Radiated Emission (9 kHz to 30 MHz)	18.305(b)	Pass
Radiated Emission (30 MHz to1 GHz)	18.305(b)	Pass
Radiated Emission (1 GHz to 25 GHz)	18.305(b)	Pass
Operating Frequency	Clause 4.5	Pass
RF Output Power Measurement	Clause 4.3	Pass

Notes: 1: NA =Not Applicable
2. Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.
3: Additions, Deviations and Exclusions from Standards: None.

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1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Microwave oven
Type/Model:	MVEM1721# (#- Represent any alphanumeric code for color of Control panel/door panel.)
Brand Name:	LG
Description of EUT:	The EUT is a Microwave oven which have series models, and they are electric identical. The model MVEM1721F were chosen to testing.
Rating:	AC 120V 60Hz Output: 1000W
Frequency:	2450MHz
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	October 10, 2023
Date of test:	October 10, 2023 ~ October 27, 2023

1.2 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 18 (2018)
FCC/OET MP-5 (1986)

2.2 Mode of operation during the test

Within this test report, EUT was tested under all available operation modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used.

Worst test mode: Working mode with full power.

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
1	Beaker	NA	1000/700/300mL

2.5 Test Load Description

Load for power output measurement, frequency measurement, radiation hazard test: 1000 milliliters of water in the beaker located in the center of the oven;
Load for measurement of radiation on second and third harmonic: Two loads, one of 700 and the other of 300 milliliters, of water are used. Each load is tested both with the beaker located in the center of the oven and with it in the right front corner.
Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the oven.

2.6 Test environment condition:

Test items	Temperature	Humidity
Radiated Emissions	22°C	55% RH
Conducted Emission	21°C	52% RH

2.7 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Test Receiver	R&S	ESR7	EC 6194	2024-02-08
☑	A.M.N.	R&S	ESH2-Z5	EC 3119	2023-11-09
☐	A.M.N.	R&S	ENV4200	EC 3558	2024-06-05
☑	Attenuator	Hua Xiang	Ts5-10db-6g	EC 6194-1	2023-12-07
☑	Shielded room	Zhongyu	-	EC 2838	2024-01-11
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Test Receiver	R&S	ESIB 26	EC 3045	2024-08-24
☑	Test Receiver	R&S	ESR	EC6501	2024-09-05
☑	Bilog Antenna	TESEQ	CBL 6112B	EC 6411	2024-08-23
☑	Active loop antenna	Schwarzbeck	FMZB1519	EC 5345	2024-07-16
☑	Horn antenna	Tonscend	bha9120d	EC 6432-2	2024-02-15
☑	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2023-12-07
☑	Horn antenna	ETS	3117	EC 4792-1	2024-08-28
☑	Horn antenna	ETS	3116C	EC 5955	2024-07-22
☑	Semi-anechoic chamber	Albatross project	-	EC 3048	2024-07-08
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3783	2024-03-24
☑	Pressure meter	YM3	Shanghai Mengde	EC 3320	2024-08-16

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2.8 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Radiated Emissions in restricted frequency bands below 1GHz	± 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 5.02dB
Power line conducted emission	± 3.19dB

3 Operating Frequency

Test result: Pass

3.1 Limit

ISM equipment may be operated on any frequency above 9 kHz. And the frequency band 2400-2500MHz is allocated for use by ISM equipment. (§18.301)

ISM frequency	Tolerance
6.78 MHz	±15.0 kHz
13.56 MHz	±7.0 kHz
27.12 MHz	±163.0 kHz
40.68 MHz	±20.0 kHz
915 MHz	±13.0 MHz
2,450 MHz	±50.0 MHz
5,800 MHz	±75.0 MHz
24,125 MHz	±125.0 MHz
61.25 GHz	±250.0 MHz
122.50 GHz	±500.0 MHz
245.00 GHz	±1.0 GHz

3.2 Measurement Procedure

a) Frequency for Normal Voltage

The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000mL water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load.

b) Frequency for Line Voltage

The EUT was operated / warmed by at least 10 minutes of use with a 1000 mL water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating.

3.3 Test Results

Item	START Frequency (MHz)	STOP Frequency (MHz)
Frequency for Normal Voltage	2400.40	2469.54
Frequency for Line Voltage	2400.35	2468.54

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4 RF Output Power Measurement

Test result: Pass

4.1 Limit

NA

4.2 Measurement Procedure

The EUT in microwave mode with full power.

Formula:

$$P = \frac{4{,}187 \cdot m_w (T_2 - T_1) + 0{,}55 \cdot m_c (T_2 - T_0)}{t}$$

NOTE:
P is the microwave power output (W)
mw is the mass of the water (ml)
mc is the mass of the container (g)
T0 is the ambient temperature (℃)
T_1 is the initial temperature of the water (℃)
T_2 is the final temperature of the water (℃)
t is the heating time (s), excluding the magnetron filament heating-up time (s).

4.3 Test Results

Quantity of Water [ml]	Mass of the container [g]	Ambient temperature [℃]	Initial temperature [℃]	Final temperature [℃]	Heating time [s]	Power output [W]
1 000	450	26.5	23.1	44.3	120	**776.42**

5 Radiation Hazard Measurement

Test result: Pass

5.1 Limit

A maximum of 1.0mW/cm^2 is allowed in accordance with the applicable FCC standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.

5.2 Measurement Procedure

The EUT was set-up according to the FCC MP-5 and FCC Part 18 for Radiation Hazard Measurement. The measurement was using a microwave leakage meter to measure the Radiation leakage in the as-received condition with the oven door closed. A 1000ml water load in a beaker was located in the center of the oven and the Microwave Oven was set to maximum power. While the oven operating, the microwave meter will check the leakage and then record the maximum leakage.

5.3 Test Results

There was no microwave leakage exceeding a power level of 0.15mW/cm^2 observed at any point 5cm or more from the external surface of the oven.

6 Radiated Emissions

Test result: **Pass**

6.1 Limit

(a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	25	300
		500 or more	25 × SQRT(power/500)	300

RF Power = 776.42W according to clause 4.3

Limit = 20lg(25*SQRT(power/500)) + 20lg(300/3) = 29.87+40 = 69.87dBuV/m @ 3m distance.

6.2 Measurement Procedure

For Radiated emission below 30MHz:

a) The EUT was placed on the top of a rotating table 1 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c) Both X and Y axes of the antenna are set to make the measurement.
d) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

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For Radiated emission above 30MHz:

a) The EUT was placed on the top of a rotating table 1.0 meters above the ground at 3-meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

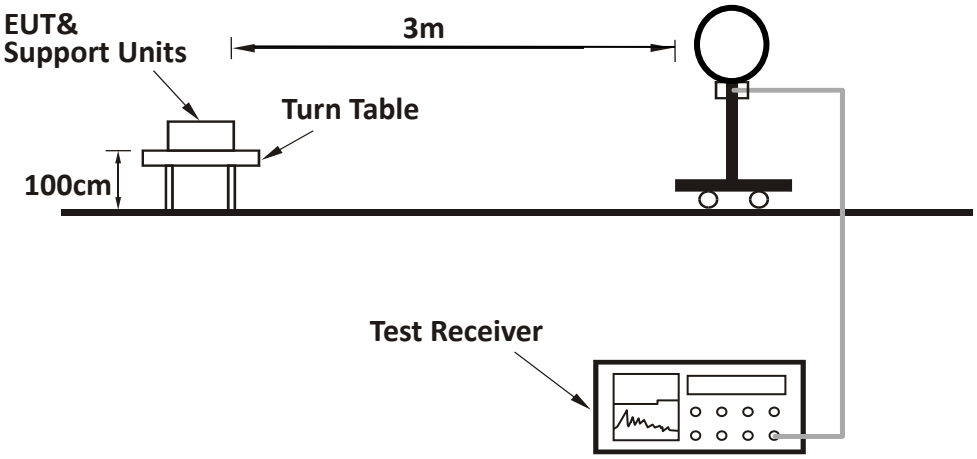
f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

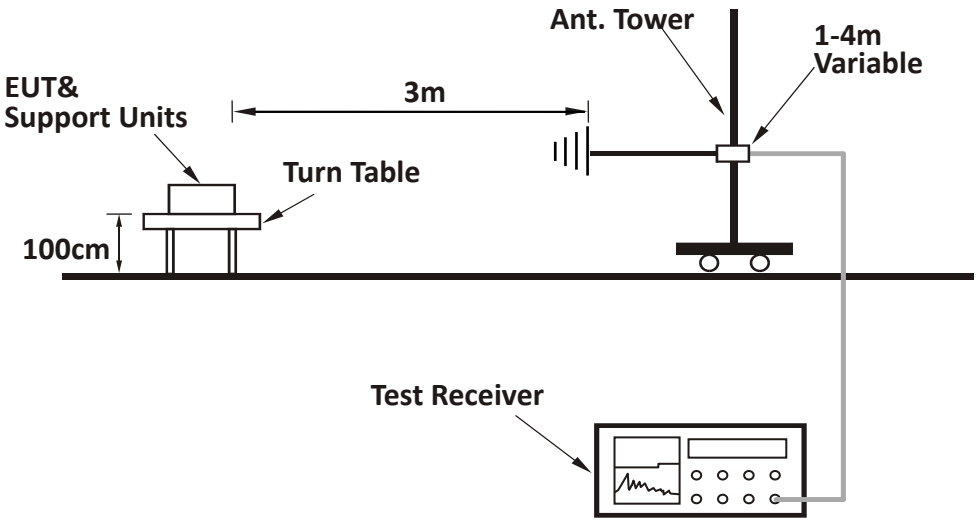
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 3 x RBW (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported

6.3 Test Configuration

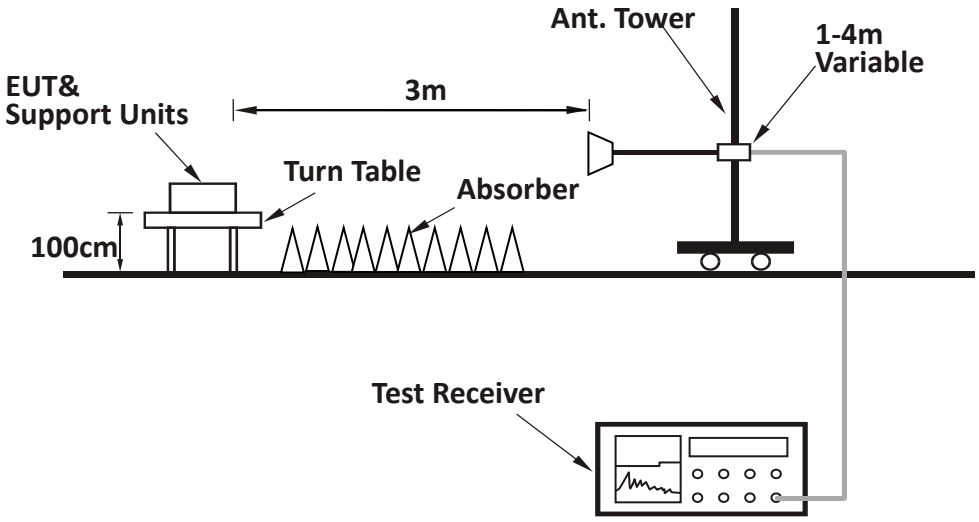
For Radiated emission below 30MHz:



For Radiated emission 30MHz to 1GHz:

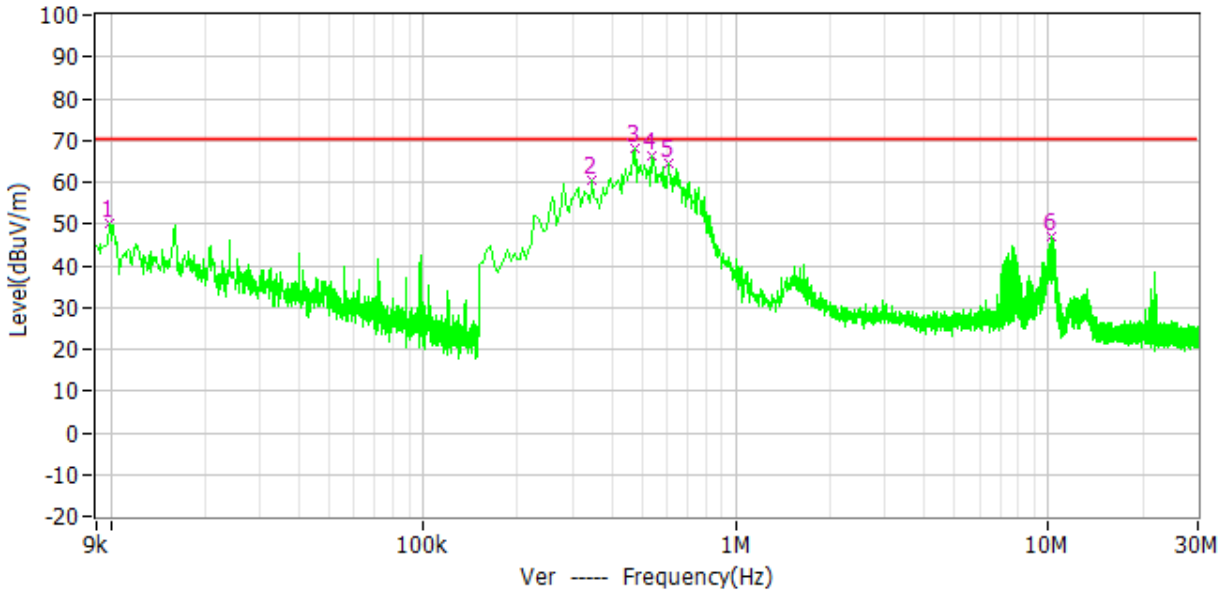


For Radiated emission above 1GHz:

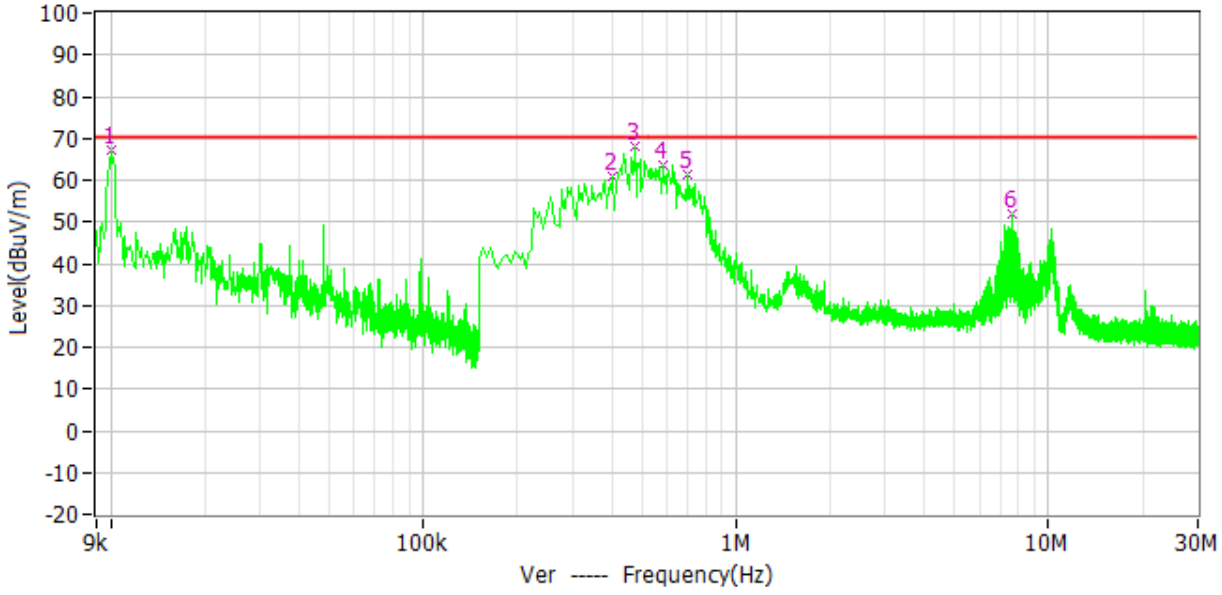


6.4 Test Results of Radiated Emissions

Test plots of 9KHz ~ 30MHz:



X



Y

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Test data of 9KHz ~ 30MHz:

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
X	0.0099	50.0	69.87	19.87	AV
X	0.3480	55.4	69.87	14.47	AV
X	0.4740	60.2	69.87	9.67	AV
X	0.5415	58.2	69.87	11.67	AV
X	0.6090	60.5	69.87	9.37	AV
X	10.257	46.9	69.87	22.97	AV
Y	0.0100	59.1	69.87	10.77	AV
Y	0.4020	60.1	69.87	9.77	AV
Y	0.4740	61.0	69.87	8.87	AV
Y	0.5865	58.8	69.87	11.07	AV
Y	0.7035	59.3	69.87	10.57	AV
Y	7.620	51.7	69.87	18.17	AV

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,
Limit = 40.00dBuV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.

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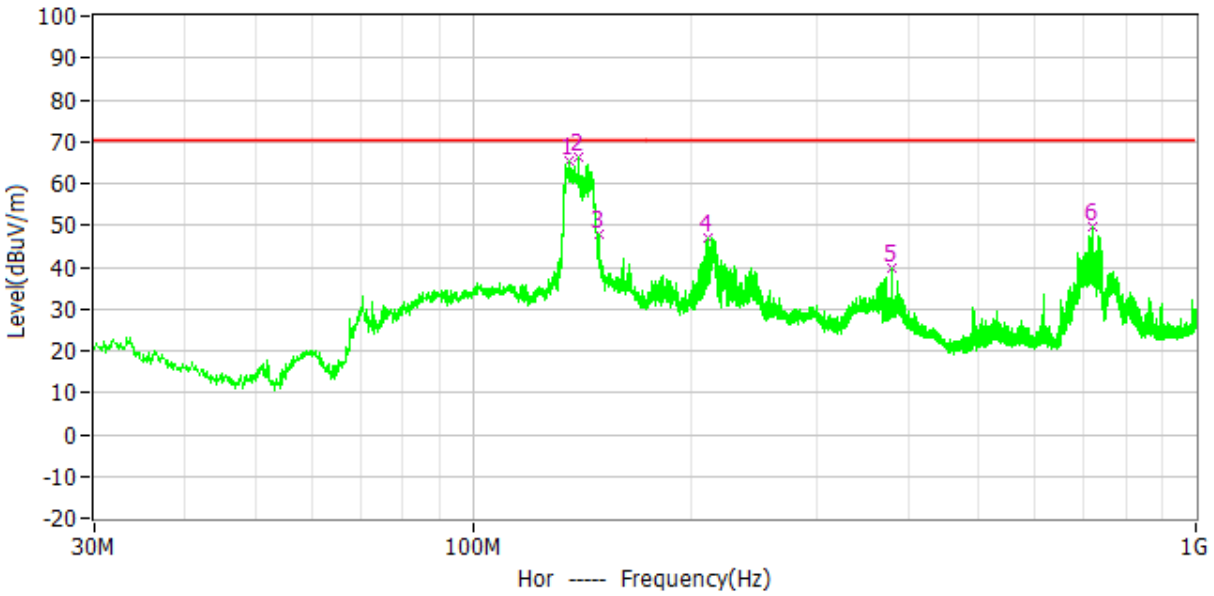
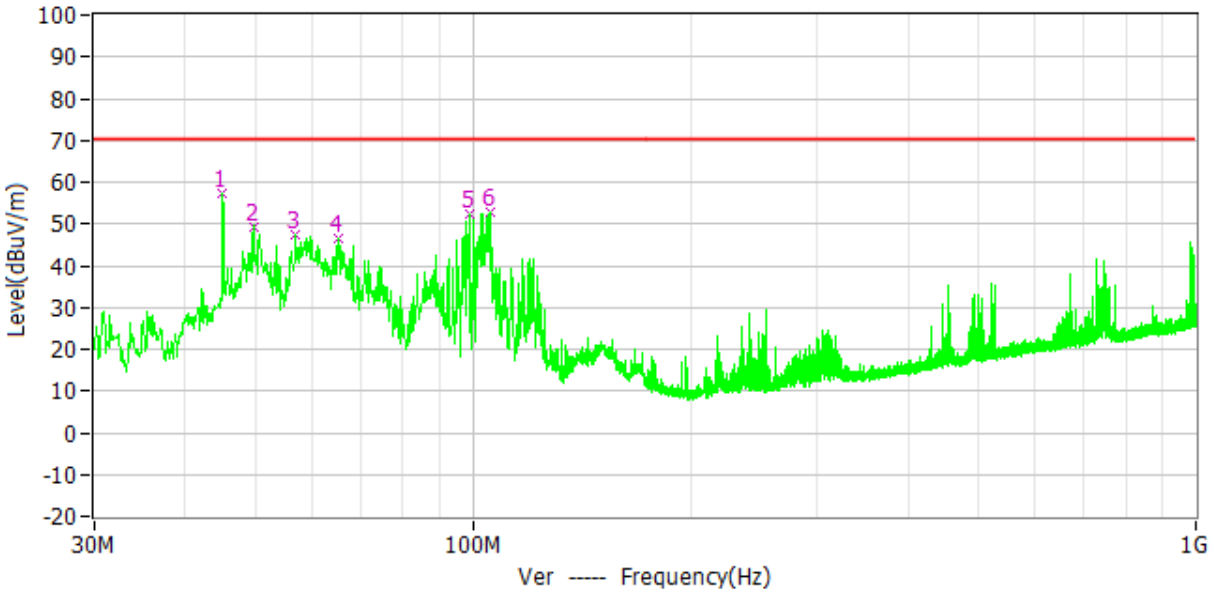
Test plots of 30MHz ~ 1GHz:

Horizontal



Vertical



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Test data of 30MHz ~ 1GHz:

Polarization	Frequency (MHz)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Margin (dBuV/m)	Detector
Horizontal	49.788	36.0	69.87	33.87	AV
	68.606	37.2	69.87	32.67	AV
	107.600	47.9	69.87	21.97	AV
	119.725	34.2	69.87	35.67	AV
	177.343	26.2	69.87	43.67	AV
	992.240	43.9	69.87	25.97	AV
Vertical	45.132	57.3	69.87	12.57	AV
	49.788	49.4	69.87	20.47	AV
	56.966	47.5	69.87	22.37	AV
	65.211	46.7	69.87	23.17	AV
	98.967	52.5	69.87	17.37	AV
	105.757	52.6	69.87	17.27	AV

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,
Limit = 40.00dBuV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.

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Test data of 1GHz ~ 25GHz:

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	2397	68.9	69.87	0.97	AV
H	4934	54.0	69.87	15.87	AV
H	7400	58.5	69.87	11.37	AV
H	9778	59.4	69.87	10.47	AV
H	12227	64.0	69.87	5.87	AV
H	14664	59.4	69.87	10.47	AV
H	17149	64.4	69.87	5.47	AV
V	2398	67.9	69.87	1.97	AV
V	4937	52.4	69.87	17.47	AV
V	7332	63.0	69.87	6.87	AV
V	9850	53.0	69.87	16.87	AV
V	12284	62.8	69.87	7.07	AV
V	14721	57.5	69.87	12.37	AV
V	17211	63.5	69.87	6.37	AV
H	19658	62.5	69.87	7.37	AV
H	22600	63.1	69.87	6.77	AV
H	24558	65.2	69.87	4.67	AV
V	19978	62.1	69.87	7.77	AV
V	22590	59.9	69.87	9.97	AV
V	24561	64.8	69.87	5.07	AV

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,
Limit = 40.00dBuV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.

7 Conducted Emission

Test result: **Pass**

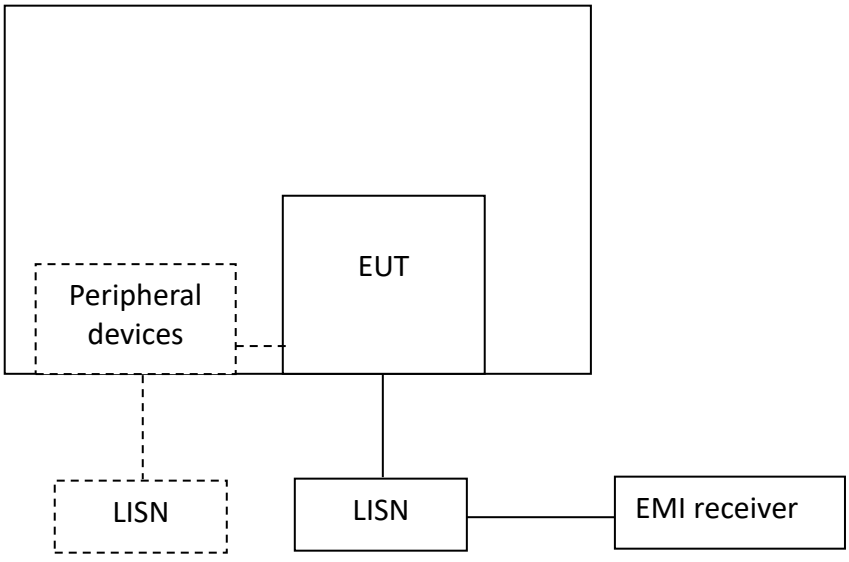
7.1 Limit

Frequency range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 ~ 56 *	56 ~ 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

Note: 1. * Means the limit decreasing linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz

2. If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out.

7.2 Test Configuration



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7.3 Measurement Procedure

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

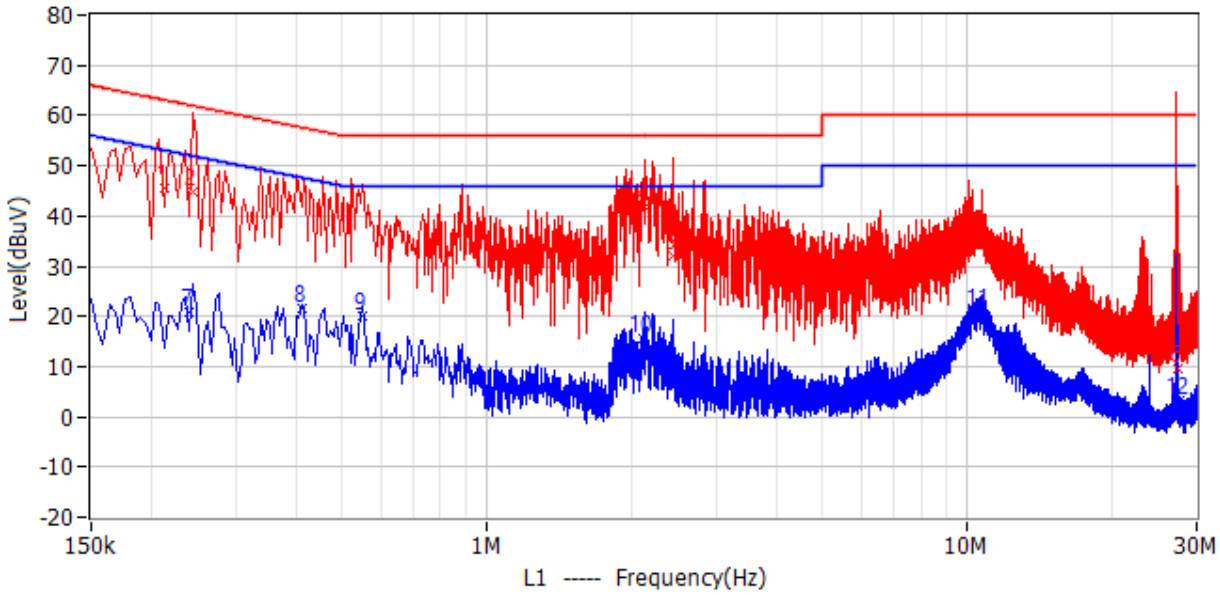
Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

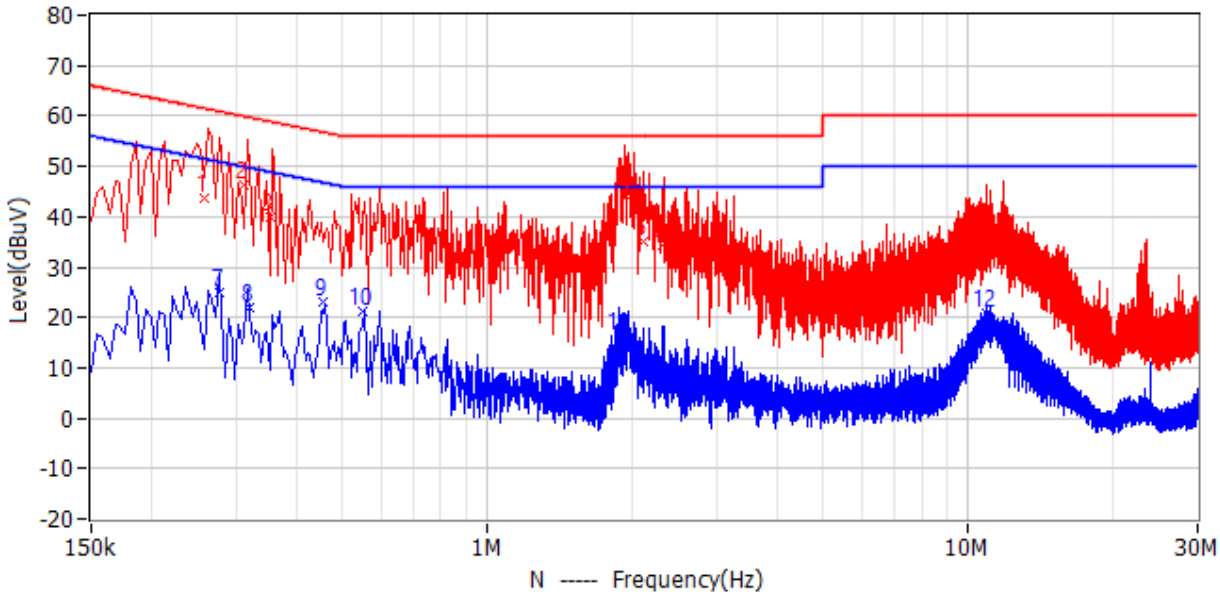
7.4 Test Results of Power line conducted emission

Test Curve:

L Line



N Line



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Test Data:

No.	Frequency	Limit dBuV	Level dBuV	Margin dB	Reading dBuV	Factor dB	Detector	Phase
1	213.000kHz	63.1	45.4	17.6	39.1	6.3	QP	L1
2	244.500kHz	61.9	44.7	17.3	38.4	6.3	QP	L1
3	1.955MHz	56.0	41.0	15.0	34.7	6.3	QP	L1
4	2.130MHz	56.0	41.7	14.3	35.4	6.3	QP	L1
5	2.436MHz	56.0	31.9	24.1	25.6	6.3	QP	L1
6	27.366MHz	60.0	9.5	50.5	2.9	6.6	QP	L1
7	258.000kHz	61.5	43.5	18.0	37.3	6.2	QP	N
8	312.000kHz	59.9	46.3	13.6	40.1	6.2	QP	N
9	352.500kHz	58.9	39.9	19.0	33.7	6.2	QP	N
10	1.955MHz	56.0	44.0	12.0	37.7	6.3	QP	N
11	2.108MHz	56.0	35.2	20.8	28.9	6.3	QP	N
12	2.310MHz	56.0	34.2	21.8	27.9	6.3	QP	N
13	240.000kHz	52.1	20.8	31.3	14.5	6.3	AV	L1
14	411.000kHz	47.6	21.4	26.2	15.2	6.2	AV	L1
15	550.500kHz	46.0	20.2	25.8	13.9	6.3	AV	L1
16	2.108MHz	46.0	15.6	30.4	9.3	6.3	AV	L1
17	10.622MHz	50.0	20.7	29.3	14.3	6.4	AV	L1
18	27.551MHz	50.0	19.9	30.1	13.3	6.6	AV	L1
19	276.000kHz	50.9	24.8	26.2	18.6	6.2	AV	N
20	321.000kHz	49.7	22.1	27.6	15.9	6.2	AV	N
21	456.000kHz	46.8	23.2	23.6	17.0	6.2	AV	N
22	550.500kHz	46.0	21.1	24.9	14.9	6.2	AV	N
23	1.901MHz	46.0	16.4	29.6	10.1	6.3	AV	N
24	10.928MHz	50.0	20.7	29.3	14.3	6.4	AV	N

Remark: 1. Correct Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.

2. Corrected Reading = Original Receiver Reading + Correct Factor

3. Margin = Limit - Corrected Reading

4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

5.The emissions of number 6, 13, 19 and 26 are the product's RF signal.

Appendix I: Photograph of test setup

Refer to Test set up photos.

Appendix II: Photograph of equipment under test

Refer to EUT External photos and Internal photos.

********** END **********